

7th Early Career Researchers Day

11th June 2024, RUB, ZGH 03-121



Programme

RUB

8:30-9:00	Registration
9:00-9:10	Tong Li , RUB, MRD Tina Boes , RUB, Incubator Materials Welcome
9:10-9:30	<i>Focus Group Thin films, micro- & nanosystems</i> Julia Jagosz , RUB, Microsystems Technology Large-area deposition of PEALD MoS ₂ layers on 200 mm glass wafers for use as a pH sensor
9:30-9:50	Martin Wilken , RUB, Inorganic Materials Chemistry Molybdenum thiolate – A single source precursor for the CVD of MoS ₂ thin films
9:50-10:10	Victor Dudarev , RUB, Materials Discovery and Interfaces Setting up research data management system for thin film libraries
10:10-10:30	Coffee Break
10:30-10:50	<i>Focus Group Thermodynamic and kinetics of materials</i> Yujun Zhao , RUB, Atomic-Scale Characterization Role of oxygen in structural instability and metastable phase in TiZrNbHfTa HEA alloy
10:50-11:10	Ahmadreza Riyahi Khorasgani , RUB, Scale-Bridging Thermodynamic and Kinetic Simulation Modelling kinetic phenomena in compositionally graded Ni-based superalloys
11:10-11:30	Irina Roslyakova , RUB, Materials Discovery and Interfaces ChatGPT to speed up the development of the 3d generation CALPHAD databases from OK
11:30-13:00	Poster session with snacks and beverages
13:00-14:00	Birgit Lukowski , Communication Designer, Suedstern Berlin (online) Crash Course: Designing effective academic posters
14:00-14:20	Coffee Break
14:20-14:40	<i>Focus Group Interface dominated materials properties and processes</i> Biao He , RUB, Atomic-Scale Characterization Navigating spatial heterogeneity in surface dynamics of Co-Cr spinel nanoparticles through atomic-scale insights
14:40-15:00	Jung Soo Lee , MPI for Sustainable Materials, Structure and Nano-/Micromechanics of Materials A micromechanical study on the correlation of composition and properties of B2 FeAl across the interface of an Fe-Al diffusion couple
15:00-15:20	Coffee Break
15:20-15:40	<i>Focus Group Microstructure and mechanical properties</i> Monica Keszler , Forschungszentrum Jülich, Materials Synthesis and Processing Developing optimal microstructure in Nd-Fe-B magnets using field assisted sintering
15:40-16:00	Maik Rajkowski , RUB, Materials Science and Engineering On phase stability in Co-base alloys and peculiarities in a BCC HEA
16:00-16:20	Sandra Kernebeck , RUB, Materials Technology Characterisation of cathode materials for Al-electrolysis: Microstructure and electrical resistivity
16:20-16:30	Announcement Best presentations awards & Prizes Falling Walls Science Summit

Partners



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